

CLAIMS

I claim:

[1. A pre-glass agglomeration, comprising:

SiO₂ about 60 to about 75%;
Na₂O about 10 to about 35%;
K₂O about 2 to about 20%;
B₂O₃ about 5 to about 20%; and
CaO about 0.5 to about 12%.

2. The pre-glass agglomeration of claim 1, further comprising:

a liquid selected from the group consisting of an oil and an alcohol.

3. The pre-glass agglomeration of claim 2, wherein:

said liquid is a fragrance.

4. The pre-glass agglomeration of claim 1, further comprising:

about 20% of an acid selected from the group consisting of HNO₃, H₂SO₄, HCl, H₃PO, HF and acetic acid.

5. The pre-glass agglomeration of claim 4, further comprising:

a liquid selected from the group consisting of an oil and an alcohol.

6. The pre-glass agglomeration of claim 5, wherein:

said liquid is a fragrance.]

7. (amended) A process for making [a pre-glass]an agglomeration[,] of fused microspheres comprising the steps of:

a. mixing silicates;

b. mixing modifiers;

- c. mixing silicates and modifiers together to form a mixture;
- d. drying the mixture to form a dry resultant material;
- e. collecting the dry resultant material;
- f. heating the resultant material to form [-a pre-glass]an agglomeration; and
- g. collecting the [pre-glass] agglomeration.

8. (amended) The process for making [a pre-glass]an agglomeration of fused microspheres as in claim 7, further comprising the steps of:

- a. soaking the [pre-glass] agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;
- b. removing the [pre-glass] agglomeration from the liquid fragrance; and
- c. drying the fragrance containing [pre-glass]the agglomeration wherein said drying is selected from the group consisting ultra violet light or heat.

9. (amended) A process for making [a pre-glass]an agglomeration of fused microspheres as in claim 7, wherein:

said silicates are sodium silicate and potassium silicate; and
said modifiers are [boron] boric acid, Pb, MgO, Al₂O₃, BaO, Li₂O, Ge, S and calcium nitrate.

10. (amended) A process for making [a pre-glass]an agglomeration of fused microspheres as in claim 9, wherein:

- a. the step of mixing the silicates and the modifiers together to form the mixture occurs by pouring the modifiers into the silicates;
- b. the step of drying occurs with a spray dryer via a diaphragm pump at 50-150 psi and atomizing at 80 to 300 psi with outlet temperature ranging from about 300° to about 800°F; and
- c. the step of heating the resultant material occurs in a furnace by an accurate feeder rotating 5-20 rpm at an angle of repose 1/8 - 5 inches per foot at about 200°C to about 1200°C with a counter current dry air flow [50] 25 - 200 SCFH.

11. (amended) A process for making [a pre-glass]an agglomeration of fused microspheres as in claim 9, wherein:

- a. the step of mixing the silicates and the modifiers together to form the mixture occurs by pouring the modifiers into the silicates;
- b. the step of drying occurs with a spray dryer via a diaphragm pump at 50-150 psi and atomizing at 80 to 300 psi with outlet temperature ranging from about 300° to about 800°F; and
- c. the step of heating the resultant material occurs in a furnace by an accurate feeder rotating 5-20 rpm at an angle of repose 1/8 - 5 inches per foot at about 200°C to about 1200°C with a co-current dry air flow [50] 25 - 200 SCFH.

12. (amended) A process for making [a pre-glass]an agglomeration of fused microspheres as in claim 9, wherein:

- a. the step of mixing the silicates and the modifiers occurs by an impeller pump and a recirculation loop;
- b. the step of drying occurs with a spray dryer with a diaphragm pump at 25-200 psi and air atomizing at 80 to 800 psi with an outlet temperature ranging from about 300° to about 800°F; and
- c. the step of heating the resultant material occurs in a furnace by an accurate feeder rotating 5-20 rpm at an angle of repose 1/8 - 5 inches per foot at about 200°C to about 1200°C with a co-current dry air flow [50] 25 - 200 SCFH.

13. (amended) A process for making [a pre-glass]an agglomeration of fused microspheres as in claim 9, wherein:

- a. the drying step occurs at about 100° to about 300°C; and
- b. the step of heating the resultant material occurs in a furnace by an accurate feeder rotating 5-20 rpm at an angle of repose 1/8 - 5 inches per foot at about 200°C to about 1200°C with a co-current dry air flow [50] 25 - 200 SCFH.

[14. (amended) A process for making a pre-glass agglomeration as in claim 9, further comprising:

a. adding about 20% acid to the mixture of silicates and modifiers by high shear vigorous mixing and ball milling to form the dry material, wherein said acids are HNO₃, H₂SO₄, HCl, H₃PO, HF, and acetic acid.]

15. (amended) The process for making [a pre-glass]an agglomeration of fused microspheres as in claim 9, further comprising the steps of:

a. soaking the [pre-glass] agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;

b. removing the [pre-glass] agglomeration from the liquid fragrance; and

c. drying the fragrance containing [pre-glass]the agglomeration of fused microspheres wherein said drying is selected from the group consisting ultra violet light or heat.

16. (amended) The process for making [a pre-glass]an agglomeration of fused microspheres as in claim 10, further comprising the steps of:

a. soaking the [pre-glass] agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;

b. removing the [pre-glass] agglomeration from the liquid fragrance; and

c. drying the fragrance containing [pre-glass]the agglomeration.

17. (amended) The process for making [a pre-glass]an agglomeration as in claim 11, further comprising the steps of:

a. soaking the [pre-glass] agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;

b. removing the [pre-glass] agglomeration from the liquid fragrance; and

c. drying the fragrance containing [pre-glass]the agglomeration.

18. (amended) The process for making [a pre-glass]an agglomeration of fused microspheres

as in claim 12, further comprising the steps of:

- a. soaking the [pre-glass] agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;
- b. removing the [pre-glass] agglomeration from the liquid fragrance; and
- c. drying the fragrance containing [pre-glass]the agglomeration wherein said drying is selected from the group consisting ultra violet light or heat.

19. (amended) The process for making [a pre-glass]an agglomeration of fused microspheres as in claim 13, further comprising the steps of:

- a. soaking the [pre-glass] agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;
- b. removing the [pre-glass] agglomeration from the liquid fragrance; and
- c. drying the fragrance containing [pre-glass]the agglomeration wherein said drying is selected from the group consisting ultra violet light or heat.

[20. The process for making a pre-glass agglomeration as in claim 14, further comprising the steps of:

- a. soaking the pre-glass agglomeration in a liquid fragrance selected from the group consisting of an oil and an alcohol;
- b. removing the pre-glass agglomeration from the liquid fragrance; and
- c. drying the fragrance containing pre-glass agglomeration wherein said drying is selected from the group consisting ultra violet light or heat.]